



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

February 5, 2004

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

TO: Interested Parties / Applicant

RE: Consolidated Grain and Barge Company / 129-17877-00035

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER-AM.dot 9/16/03

February 5, 2004

Mr. Mel Spaulding
Consolidated Grain and Barge Company
P.O. Box 289
Mount Vernon, IN 47620-0289

Re: **129-17877-00035**
Fourth Administrative Amendment to
Part 70 Permit 129-10111-00035

Dear Mr. Spaulding:

Consolidated Grain and Barge Company (CGB) was issued a permit on February 20, 2001 for a stationary soybean oil extraction operation. A letter requesting a change to this permit was received on June 26, 2003. Pursuant to the provisions of 326 IAC 2-7-11 an Administrative Amendment to this permit is hereby approved as follows.

Consolidated Grain and Barge has submitted an application to:

- (a) replace the existing expander system cooler,
- (b) add three (3) bin vent filter systems to the conveying system servicing the barge loading area,
- (c) add two (2) bin vent filter systems to the enclosed bucket elevator, and
- (d) double the cloth area of the kaolin baghouse.

Replacing the expander system cooler will generate an increase in the source potential PM/PM10 emissions. Adding the bin vent systems will not affect the respective conveying system emissions. Doubling the cloth area of the kaolin baghouse will not result in an increase in emissions or production at the kaolin unloading area.

In addition, replacing the expander cooler, adding the bin filter systems and doubling the cloth area will not result in an increase in production or emissions from any other existing source emission units.

Therefore, the emission increases associated with the modification are the replacement cooler emissions.

The following calculations determine the expander system cooler PM/PM10 emissions based on an emission rate of 0.22 lb/hr as determined in the latest stack test performed for the expander system, emissions after controls, and 8760 hours of operation.

The expander cooler/cyclone system is considered integral to the process because this system recovers excess product for reprocessing. Therefore, the emissions associated with the replacement cooler are based on emissions after controls.

PM: $0.22 \text{ lb/hr} * 8760 \text{ hr/yr} * 1/2000 \text{ ton/lb} = 0.96 \text{ ton/yr}$

PM10: $0.22 \text{ lb/hr} * 8760 \text{ hr/yr} * 1/2000 \text{ ton/lb} = 0.96 \text{ ton/yr}$

The total increase in PM and PM10 potential to emit are estimated to be 0.96 tons/yr and 0.96 tons/yr, respectively.

Upon completion of review of the applicable state and federal rules, the Office of Air Quality has determined that there are no new rules that become applicable.

However, it is determined that the increases in emissions due to the addition of the cooler qualify the proposed changes as a modification which triggers re-evaluation of 40 CFR 60, Subpart DD and the stack testing requirements.

Upon review of 40 CFR 60, Subpart DD, it is determined that none of the units associated with the proposed modification are affected facilities under 40 CFR 60, Subpart DD. Therefore, no new stack testing is required due to NSPS requirements.

However, proposed bin vents C8B and C8C will be an alternative exhaust route for the pellet storage bin particulate emissions. Since stack testing was required of the original exhaust point (C8A), stack testing shall be required of the proposed bin vents (C8B and C8C).

Therefore, the owner or operator shall be required to perform stack testing as follows. The requirement to conduct stack testing shall be added to the affected testing requirement in the permit.

Within sixty (60) days of reaching maximum capacity but no later than 180 days after initial startup, the Permittee shall perform particulate matter (PM) testing for hull pellet storage bin vents C8B and C8C utilizing Method 5 for PM or other methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C- Performance Testing.

Consolidated Grain and Barge Company shall submit a stack testing plan to the IDEM within 30 days after initial start-up. This plan shall outline the measures to be taken to demonstrate compliance with permitted emission rates and must be approved by IDEM. The plan shall identify the facilities and the methods in which emissions from the representative facilities shall be evaluated to determine initial compliance with the applicable limits and standards.

The owner or operator may request existing stack testing results be used to satisfy the stack testing requirements or request that the stack testing be waived as an alternative to the stack testing required in this letter. However, the means by which the stack testing requirements are satisfied shall be determined by the Office of Air Quality (OAQ).

The proposed modification is not a Minor Source Modification under 326 IAC 2-7-10.5 because the increases in the PM and PM10 potential to emit (PTE) are less than the 326 IAC 2-7-10.5(d)(4)(A) low end applicable level of 5 tons per year.

Therefore, the proposed changes shall be incorporated into the existing source Title V permit via an Administrative Amendment pursuant to 326 IAC 2-7-11(a)(7) which states that modifications which consist of revisions of descriptive information where the revision will not trigger a new applicable requirement or violate a permit term may be incorporated into a permit via an Administrative Amendment.

To incorporate the proposed changes into the permit, the following changes shall be made. All added information is indicated in bold type. All deleted information is struck-out.

Condition A.2(ii) shall be changed as follows to add the two new bin vent filter systems to the pellet storage bin system.

- (ii) Pellet storage bins with a maximum capacity of 70,000 cubic feet, that controls PM emissions with one (1) baghouse (C8A) that exhausts to Stack 8A, **or bin vent filter systems C8B and C8C with all emissions exhausted through Stacks C8B and C8C;**

Condition A.2(ppp) shall be changed as follows to add the three new bin vent systems to the drag conveyor.

- (ppp) One (1) totally enclosed drag conveyor (or equivalent) that transfers meal from the lower surge to rail or barge loadout at a maximum rate of 383.3 tons per hour, **with particulate emissions controlled by bin vent filter systems C21A, C21B, and C21C, and emissions exhausted through Stacks C21A, C21B, and C21C;**

The unit description of Section D.1 shall be changed as follows to add the two new bin vent filter systems to the pellet storage bin system.

- (ii) Pellet storage bins with a maximum capacity of 70,000 cubic feet, that controls PM emissions with one (1) baghouse (C8A) that exhausts to Stack 8A, **or bin vent filter systems C8B and C8C with all emissions exhausted through Stacks C8B and C8C;**

The unit description of Section D.1 shall be changed as follows to add the three new bin vent systems to the drag conveyor.

- (ppp) One (1) totally enclosed drag conveyor (or equivalent) that transfers meal from the lower surge to rail or barge loadout at a maximum rate of 383.3 tons per hour, **with particulate emissions controlled by bin vent filter systems C21A, C21B, and C21C, and emissions exhausted through Stacks C21A, C21B, and C21C;**

Upon review of the conditions, it was determined that three (3) limits established in Condition D.1.7 of the original permit were inadvertently left out of the condition when Minor Source Modification 129-15392-00035 was issued. To correct this problem, the limits will be added back into the condition.

D.1.7 Best Available Control Technology (BACT) [326 IAC 8-1-6]

Pursuant to CP-129-7488-00035 (issued on July 17, 1995), as revised by source modification (129-12235-00035), the VOC (hexane) emissions from the soybean oil extractor plant shall comply with the Best Available Control Technology (BACT) for the oil extractor, meal dryers, and meal cooler. The company shall assure compliance with BACT by performing monitoring and recordkeeping such that the following limits are not exceeded:

.....

The limits established correspond to the following BACT determinations:

Facility	BACT	VOC (Hexane) Emission Limit including upset conditions
The extraction and distillation process including the oil extractor, desolventizer, evaporators, solvent separator and vent system	Mineral Oil Absorber System	0.084 lb/ton soybean processed
Meal dryers	None	0.30 lb/ton soybean processed
Meal cooler	None	0.051 lb/ton soybean processed

The company will minimize the hexane emissions by training the operators and supervisors. At the end of each calendar year, the company shall submit to the IDEM a progress report of efforts taken to reduce hexane emissions from the plant; and

.....

Condition D.1.9 shall be changed as follows to include proposed bin vents C8B and C8C in the stack testing requirements and to remove the stack testing requirements for the expander stack because said requirements no longer apply.

D.1.9 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

~~For the new expander stack, w~~Within sixty (60) days of reaching maximum capacity but no later than 180 days after initial startup, the Permittee shall perform particulate matter (PM) and volatile organic compound (VOC) testing utilizing Method 5 for PM and Method 25 for VOC (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. ~~For all other stacks, the Permittee shall perform particulate matter (PM) and volatile organic compound (VOC) testing utilizing Method 5 for PM and Method 25 for VOC (40 CFR 60, Appendix A), or other methods as approved by the Commissioner, during the five year term of the permit.~~ Testing shall be conducted in accordance with Section C- Performance Testing.

Consolidated Grain and Barge Company shall submit a stack testing plan to the IDEM within 30 days after initial start-up. This plan shall outline the measures to be taken to demonstrate compliance with permitted emission rates and must be approved by IDEM. The plan shall identify the facilities and the methods in which emissions from the representative facilities of the following facilities list shall be evaluated to determine initial compliance at the increased plant capacity:

Facility	Pollutant
P1 - Truck Receiving and Conveyors Baghouse (C1)	PM
North Truck Only Receiving Baghouse (C24)	PM
Barge Receiving Baghouse (C16)	PM
Oil application dust control on P1 Truck Receiving or H.B. Truck and Rail Receiving conveyors	PM
Oil application dust control on Annex Silo Loading, Merchandizing Silo Loading or North House Storage/Loadout	PM
Soybean Cleaning System Baghouse (C4) and Aspirator/Breaker Cyclone (C5E)	PM
Soybean Heater	PM
Jet Dryers Cyclones (C5A, C5B and C5F)	PM
Primary CCD Dryers Cyclones (C5C and C5G)	PM
Secondary CCC Coolers Cyclones (C5D and C5H)	PM
Soybean Expander Cyclone (C23)	PM
Soybean Flaking Baghouses (C19A, C19B and C19C)	PM
DTDC Meal Drying Section 1 Cyclone (C10)	PM, VOC
DTDC Meal Drying Section 2 Cyclone (C11)	PM, VOC
DTDC Meal Cooling Cyclone (C12)	PM, VOC
Oil Extractor, Evaporator and Condenser Mineral Oil Absorber System (C13)	VOC
Meal Sizing Baghouse (C9)	PM
Kaolin Bin Vent Baghouse (C3)	PM
Hull Grinding Baghouse (C6)	PM
Hull Storage Bin Baghouse (C7) and Hopper Baghouse (C7A)	PM
Hull Pellet Cooling Cyclone (C8)	PM
Hull Pellet Storage Baghouse (C8A)	PM
Hull Pellet Storage Bin Vents (C8B and C8C)	PM
Meal Storage & Loadout Bins Baghouse (C20)	PM
Truck Meal Loadout Baghouse (C14)	PM
Barge/Rail Meal Loadout Baghouse (C15)	PM

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Scott Fulton at (317)-233-5691, or phone (800) 451-6027 and ask for Scott Fulton or extension (3-5691).

Sincerely,

Original Signed by Paul Dubenetzky
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments

SDF

cc: File - Posey County
U.S. EPA, Region V
Posey County Health Department
Southwest Regional Office
Air Compliance Section Inspector - Scott Anslinger
Compliance Data Section - Karen Nowak
Administrative and Development
Technical Support and Modeling - Michele Boner

PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**Consolidated Grain and Barge Company
Bluff Road
Mount Vernon, Indiana 47620**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T129-10111-00035	Date Issued: February 20, 2001 Expiration Date: February 20, 2006
Issued by: Paul Dubenetzky, Branch Chief, Office of Air Quality	

1 st Administrative Amendment No.:	129-14511-00035	Date Issued:	09-05-01
2 nd Administrative Amendment No.:	129-15173-00035	Date Issued:	01-22-02
1 st Minor Source Modification No.:	129-15392-00035	Date Issued:	04-12-02
1 st Significant Permit Modification No.:	129-15765-00035	Date Issued:	05-15-02
3 rd Administrative Amendment No.:	129-16161-00035	Date Issued:	09-04-02

4 th Administrative Amendment No.: 129-17877-00035	Affected Pages: 5 - 11 and 31-46, with 11a, 46a, and 46b added
Issued by: Original Signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief, Office of Air Quality	Issuance Date: February 5, 2004

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this approval pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a soybean oil extraction plant.

Responsible Official:	Melvin L. Spaulding
Source Address:	Bluff Road, Mt. Vernon, Indiana, 47620
Mailing Address:	P.O. Box 548, Mt. Vernon, Indiana, 47620-0548
SIC Code:	2075
County Location:	Posey
County Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD Rules; Major Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) truck only soybean north receiving area (P24) with a maximum throughput capacity of 360 tons per hour consisting of:
 - (1) One (1) truck only receiving pit that controls PM emissions with one (1) baghouse (C24) that exhausts to Stack 24;
- (b) One (1) north house bin loading area (P27) with a maximum throughput capacity of 360 tons per hour loading consisting of:
 - (1) One (1) totally enclosed aspirated elevator leg that transfers soybeans to enclosed conveyors at a maximum rate of 720,000 pounds per hour;
 - (2) Three (3) enclosed conveyors that transfer the soybean from the north receiving area to the soybean storage areas at a combined maximum rate of 720,000 pounds per hour;
- (c) One (1) north storage/loadout area (P25) with a maximum throughput capacity of 360 tons per hour loading/unloading consisting of:
 - (1) Two (2) steel storage tanks with a maximum capacity of 21,000 tons (700,000 bushels), each, that utilize oil application to control PM emissions;

- (2) Two (2) enclosed conveyors that transfer the soybean from the storage area to the loadout bin at a combined maximum rate of 720,000 pounds per hour;

- (d) One (1) soybean expander system (P23) with a maximum capacity of 50 tons per hour consisting of:
 - (1) One (1) expander, forming soybean collets, with a maximum capacity of 50 tons per hour;
 - (2) One (1) soybean collet cooler with a maximum capacity of 50 tons per hour that controls PM emissions with one (1) cyclone (C23) that exhausts to Stack 23;
 - (3) Two (2) totally enclosed conveyors that transfer soybean fines from the hull aspirator to an enclosed expander conveyor at a maximum rate of 50 tons per hour;
 - (4) Two (2) totally enclosed expander conveyors that transfer soybean flakes and fines to the expander at a maximum rate of 50 tons per hour;
 - (5) One (1) totally enclosed conveyor that transfers soybean collets from the expander to the cooler at a maximum rate of 50 tons per hour;
 - (6) One (1) totally enclosed conveyor that transfers soybean collets from the cooler to the enclosed flake conveyor at a maximum rate of 50 tons per hour.
- (e) One (1) truck only soybean receiving area (P1) with a maximum throughput capacity of 600 tons per hour consisting of:
 - (1) One (1) truck only receiving pit that controls PM emissions with one (1) baghouse (C1) that exhausts to Stack 1,
 - (2) One (1) totally enclosed belt conveyor system (or equivalent) that utilizes an oil application to control PM emissions,
 - (3) One (1) aspirated soybean receiving leg that utilizes an oil application and one (1) baghouse (C1) that exhausts to Stack 1 to control PM emissions,
 - (4) One (1) drag conveyor that transfers the soybean from the receiving leg to the soybean covered belt conveyor, and
 - (5) One (1) covered belt conveyor that loads the soybean storage silos;
- (f) One (1) truck and rail soybean and hull receiving area (P2) with a maximum throughput capacity of 540 tons per hour consisting of:
 - (1) Two (2) H.B. truck and rail receiving pits that control PM emissions by restricting vehicles unloading grain at these stations to hopper-bottom rail cars and trucks with choke unloading applications,

- (2) One (1) enclosed drag conveyor system (or equivalent) that utilizes an oil application to control PM emissions,
- (3) Two (2) aspirated soybean and hull receiving legs that utilize an oil application and one (1) baghouse (C1) that exhausts to Stack 1 to control PM emissions,

Consolidated Grain and Barge Co.
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- (4) One (1) enclosed drag conveyor that transfers the soybean at a maximum rate of 540 tons per hour from the receiving leg to the soybean covered belt conveyor that loads the soybean silos and the hull at a maximum rate of 170 tons per hour from the receiving leg to the hull covered belt conveyor that loads the hull silos;
- (g) One (1) barge soybean receiving area (P16) with a maximum throughput capacity of 540 tons per hour consisting of:
- (1) One (1) clamshell crane or bucket unloading to one (1) aspirated hopper unloading to one (1) enclosed belt/mass flow conveyor that controls PM emissions with one (1) baghouse (C16) that exhausts to Stack 16,
 - (2) One (1) enclosed conveyor system that utilizes an oil application to control PM emissions,
 - (3) One (1) enclosed bucket elevator, and
 - (4) One (1) enclosed belt/mass flow conveyor that discharges to the truck and rail receiving scale;
- (h) Twelve (12) concrete soybean silos, with a maximum storage capacity of 2,191.6 tons (73,053 bushels) each, that utilize an oil application to control PM emissions;
- (i) Four (4) concrete soybean storage silos with a maximum capacity of 19,375 bushels each, that utilize an oil application to control PM emissions;
- (j) Two (2) concrete soybean storage silos, with a maximum capacity of 18,801 bushels each, that utilize an oil application to control PM emissions;
- (k) One (1) flow coating material kaolin receiving bin that controls PM emissions with one (1) baghouse (C3) that exhausts to Stack 3;
- (l) One (1) flow coating material enclosed conveyor system that transfers kaolin to the enclosed mixing screw conveyor at a maximum rate of 0.417 tons per hour;
- (m) Three (3) totally enclosed drag conveyors (or equivalent) comprising two conveyance systems located below the storage silos that transfer the soybeans from the silos to the elevator legs at a maximum rate of 115 tons per hour per system. Only one system operates at any given time and the systems utilize an oil application to control PM emissions;

- (n) Two (2) soybean elevator legs that transfer the soybeans from the drag conveyor to the cleaner at a maximum rate of 115 tons per hour each, and utilize an oil application to control PM emissions;
- (o) One (1) totally enclosed conveyor that transfers the soybeans from the elevator legs to the magnet at a maximum rate of 115 tons per hour;
- (p) One (1) magnet, with a maximum capacity of 115 tons per hour, that utilizes both an oil application and one (1) baghouse (C4) that exhausts to Stack 4 to control PM emissions;

Consolidated Grain and Barge Co.
Mount Vernon, Indiana
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- (q) One (1) cleaning system with a maximum capacity of 115 tons per hour, consisting of one (1) cleaner, two (2) aspirators, two (2) hoppers, and one (1) scale, that utilize both an oil application and one (1) baghouse (C4) that exhausts to Stack 4 to control PM emissions and one (1) aspirator and one (1) breaker that utilize one (1) cyclone (C5E) that exhaust to Stack 5 to control PM;
- (r) One (1) soybean heater, with a maximum capacity of 115 tons per hour, that exhausts to Stack 21;
- (s) One (1) L-Path totally enclosed drag conveyor (or equivalent) that transfers the cleaned soybeans at a maximum rate of 115 tons per hour;
- (t) One (1) enclosed drag conveyor (or equivalent) and one (1) totally enclosed overflow recycle L-Path conveyor (or equivalent) with a totally enclosed surge hopper that transfers soybeans to the jet dryers at a maximum rate of 115 tons per hour;
- (u) Three (3) jet dryers, with a maximum capacity of 42 tons per hour each, that controls PM emissions with three (3) cyclones (C5A, C5B, and C5F) that exhaust to Stack 5;
- (v) Three (3) primary CCD dryers, with a combined maximum capacity of 115 tons per hour, that controls PM emissions with two (2) cyclones (C5C and C5G) that exhaust to Stack 5;
- (w) Three (3) secondary CCC coolers, with a combined maximum capacity of 115 tons per hour, that controls PM emissions with two (2) cyclones (C5D and C5H) that exhaust to Stack 5;
- (x) Six (6) cracking and dehulling rolls, with a combined maximum capacity of 115 tons per hour, that transfer the hulls through four (4) cyclones (C5C, C5D, C5G, and C5H) to an enclosed conveyor;
- (y) One (1) totally enclosed cracking and dehulling drag conveyor (or equivalent) that transfers hulls from cyclones C5A and C5B to the hull grinding system at a maximum rate of 8.05 tons per hour;
- (z) One (1) totally enclosed cracking and dehulling drag conveyor (or equivalent) that transfers hulls and aspirated fines from cyclones C5C, C5D, C5F, C5G, C5H, and the totally enclosed auger (or equivalent) of filter C4 to the hull screener and aspirator at a maximum rate of 8.05 tons per hour;

- (aa) One (1) hull screener and aspirator, with a maximum capacity of 8.05 tons per hour, that controls PM emissions with one (1) cyclone (C5E) that exhausts to Stack 5;
- (bb) One (1) totally enclosed drag conveyor (or equivalent) that transfers hulls from the hull screener to the hull grinders at a maximum rate of 8.05 tons per hour;
- (cc) Two (2) hull grinders, with a maximum system capacity of 8.05 tons per hour, that transfers the ground hulls to one (1) baghouse (C6) that exhausts to Stack 6;
- (dd) Hull storage bins, with a maximum capacity of 39,000 cubic feet, that controls PM emissions with one (1) baghouse (C7) that exhausts to Stack 7;

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- (ee) One (1) totally enclosed drag conveyor (or equivalent) that transfers hulls to the hull hopper at a maximum rate of 15 tons per hour;
- (ff) One (1) hull hopper that feeds to the pellet mill at a maximum rate of 15 tons per hour that controls PM emissions with one (1) baghouse (C7A) that exhausts to Stack 7A;
- (gg) One (1) hull pellet mill with a maximum capacity of 15 tons per hour;
- (hh) One (1) hull pellet cooler, with a maximum capacity of 15 tons per hour, that controls PM emissions with one (1) cyclone (C8) that exhausts to Stack 8;
- (ii) Pellet storage bins with a maximum capacity of 70,000 cubic feet, that controls PM emissions with one (1) baghouse (C8A) that exhausts to Stack 8A, or bin vent filter systems C8B and C8C with all emissions exhausted through Stacks C8B and C8C;
- (jj) One (1) totally enclosed drag conveyor (or equivalent) and one (1) totally enclosed overflow recycle L-Path conveyor (or equivalent) with a totally enclosed surge hopper that transfers beans from cracking and dehulling to the flakers at a maximum rate of 104.9 tons per hour;
- (kk) Nine (9) flakers, with a combined maximum capacity of 104.9 tons per hour, that controls PM emissions with three (3) baghouses (C19A, C19B, and C19C) that exhaust to Stack 19;
- (ll) Two (2) totally enclosed drag conveyors (or equivalent) in series that transfer soybean flakes and collets from the flakers and the expander system to the feed screw conveyor at a maximum rate of 104.9 tons per hour;
- (mm) One (1) feed screw conveyor that transfers soybean flakes and collets to the extractor at a maximum rate of 104.9 tons per hour;
- (nn) One (1) soybean oil extractor, with a maximum capacity of 104.9 tons of soybean flakes and collets per hour and 104.9 tons of hexane per hour, that controls hexane (VOC) emissions with one (1) mineral oil absorber system (C13) that exhausts to Stack 13;
- (oo) One (1) desolventizer unit, with a maximum capacity of 86.8 tons of spent soybean flakes and collets per hour, that controls hexane emissions with one (1) mineral oil absorber system (C13) that exhausts to Stack 13;

- (pp) A set of evaporators, with a maximum capacity of 20.7 tons of soybean oil per hour, that controls hexane emissions with one (1) mineral oil absorber system (C13) that exhaust to Stack 13;
- (qq) A set of condensers and water separator to separate hexane and water, with a maximum capacity of 20.7 tons of soybean oil per hour, that controls hexane emissions with one (1) mineral oil absorber system (C13) that exhaust to Stack 13;
- (rr) One (1) totally enclosed drag conveyor (or equivalent) that transfers flakes and hexane to the desolventizer at a maximum rate of 86.8 tons per hour and 34.5 tons per hour, respectively;

- (ss) One (1) DTDC meal dryer section 1, with a maximum drying capacity of 83.4 tons of meal per hour, that controls PM emissions with one (1) cyclone (C10) that exhausts to Stack 10;
- (tt) One (1) DTDC meal dryer section 2, with a maximum drying capacity of 83.4 tons of meal per hour, that controls PM emissions with one (1) cyclone (C11) that exhausts to Stack 11;
- (uu) One (1) DTDC meal cooler section, with a maximum cooling capacity of 83.4 tons of meal per hour, that transfers the meal to one (1) cyclone (C12) to Stack 12;
- (w) One (1) DTDC enclosed screw conveyor (or equivalent) that transfers meal from the DTDC meal cooler and three (3) DTDC cyclones (C10, C11, and C12) to the meal surge bin conveyor at a maximum capacity of 83.4 tons per hour;
- (ww) One (1) totally enclosed surge bin conveyor that transfers the meal to the surge bins at a maximum rate of 83.4 tons per hour;
- (xx) Two (2) meal surge bins, with a maximum storage capacity of 19,500 cubic feet, that feed to the screeners or the recycle leg that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;
- (yy) One (1) elevator leg that transfers the meal to the sizing process at a maximum rate of 83.4 tons per hour;
- (zz) Five (5) meal screeners, with a maximum capacity of 83.4 tons of meal per hour, that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;
- (aaa) One (1) meal screening hopper that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;
- (bbb) Two (2) meal grinders, with a combined maximum capacity of 83.4 tons per year, that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;
- (ccc) Two (2) meal grinding hoppers and two (2) aspirators that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;

- (ddd) One (1) totally enclosed drag conveyor (or equivalent) that transfers meal from the grinding hoppers to the meal mixing screw conveyor at a maximum rate of 83.4 tons per hour;
- (eee) One (1) enclosed meal mixing screw conveyor (or equivalent) that transfers meal to the mixed meal elevator leg at a maximum rate of 83.8 tons per hour;
- (fff) One (1) mixed meal elevator leg, with a maximum capacity of 83.8 tons per hour, that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;
- (ggg) One (1) totally enclosed drag conveyor (or equivalent) that transfers meal from the mixed meal elevator leg to the meal storage tanks, load out bins and bulk weigh system at a maximum rate of 83.8 tons per hour;

- (hhh) Meal storage tanks (capacity 292,000 cubic feet) and loadout bins (capacity 58,000 cubic feet), with a combined maximum storage capacity of 350,000 cubic feet, that controls PM emissions with one (1) baghouse (C20) that exhausts to Stack 20;
- (iii) One (1) totally enclosed drag conveyor (or equivalent) that transfers soybean meal from the meal storage tanks to the meal elevator leg at a maximum rate of 300 tons per hour;
- (jjj) One (1) meal elevator leg that operates at a maximum capacity of 300 tons per hour and controls PM emissions with one (1) baghouse (C20) that exhausts to Stack 20;
- (kkk) One (1) truck loadout scalper with a totally enclosed ball breaker that operates at a maximum capacity of 383.3 tons per hour;
- (III) Two (2) totally enclosed drag conveyors (or equivalent) that transfer meal from the meal loadout bins to the truck at a maximum rate of 383.3 tons per hour each;
- (mmm) One (1) truck loadout chute that operates at a maximum capacity of 383.3 tons per hour and controls PM emissions with one (1) baghouse (C14) that exhausts to Stack 14;
- (nnn) One (1) rail and barge loadout scalper with a totally enclosed ball breaker that operates at a maximum capacity of 383.3 tons per hour;
- (ooo) One (1) rail and barge bulk weigh system consisting of one (1) upper garner, one (1) weigh hopper, and one (1) lower surge that operates at a maximum capacity of 383.3 tons per hour;
- (ppp) One (1) totally enclosed drag conveyor (or equivalent) that transfers meal from the lower surge to rail or barge loadout at a maximum rate of 383.3 tons per hour, with particulate emissions controlled by baghouses C21A, C21B, and C21C, and emissions exhausted through Stacks C21A, C21B, and C21C;
- (qqq) Two (2) rail loadout systems that operates at a maximum total capacity of 383.3 tons per hour, based on only one system operating at a time, and control PM emissions with one (1) baghouse (C15) that exhausts to Stack 15;

- (rrr) One (1) enclosed conveyor that transfers soybean meal from the lower surge to the barge loadout system at a maximum rate of 383.3 tons;
- (sss) One (1) barge loadout system that operates at a maximum capacity of 383.3 tons per hour and controls PM emissions with one (1) baghouse (C15) that exhausts to Stack 15;
- (ttt) Three (3) 33.7 million (MM)Btu per hour natural gas fired boilers that exhaust to Stacks 17, 18, and 18A;
- (uuu) Two (2) fixed roof hexane storage tanks with a maximum storage capacity of 14,000 gallons each;
- (ww) One (1) fixed roof hexane work tank with a maximum storage capacity of 8,000 gallons;

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- (www) Four (4) fixed roof soybean oil storage tanks with a maximum storage capacity of 932 cubic meters each;
- (xxx) Three (3) fixed roof soybean oil storage day tanks with a maximum storage capacity of 114 cubic meters each; and
- (yyy) One (1) fixed roof dust suppression soybean/mineral oil storage tank with a maximum storage capacity of 1,000 gallons.
- (zzz) Two (2) soybean storage piles, each with a maximum annual throughput of 0.75 million bushels per year.
- (aaaa) One (1) new silo, with a maximum capacity of 525,000 bushels, and a maximum handling rate of 157,500 tons per year, using oil application to control PM emissions. The new silo will not increase the overall throughput of the soybeans at the plant, but will allow the source to separate genetically altered crops from non-genetically altered ones.
- (bbbb) One (1) new enclosed belt conveyor to load the new silo.
- (cccc) One (1) new enclosed drag conveyor to loadout the new silo.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
[326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3]

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22).
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

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SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (a) One (1) truck only soybean north receiving area (P24) with a maximum throughput capacity of 360 tons per hour consisting of:
 - (1) One (1) truck only receiving pit that controls PM emissions with one (1) baghouse (C24) that exhausts to Stack 24;
- (b) One (1) north house bin loading area (P27) with a maximum throughput capacity of 360 tons per hour loading consisting of:
 - (1) One (1) totally enclosed aspirated elevator leg that transfers soybeans to enclosed conveyors at a maximum rate of 720,000 pounds per hour;
 - (2) Three (3) enclosed conveyors that transfer the soybean from the north receiving area to the soybean storage areas at a combined maximum rate of 720,000 pounds per hour;
- (c) One (1) north storage/loadout area (P25) with a maximum throughput capacity of 360 tons per hour loading/unloading consisting of:
 - (1) Two (2) steel storage tanks with a maximum capacity of 21,000 tons (700,000 bushels), each, that utilize oil application to control PM emissions;
 - (2) Two (2) enclosed conveyors that transfer the soybean from the storage area to the loadout bin at a combined maximum rate of 720,000 pounds per hour;
- (d) One (1) soybean expander system (P23) with a maximum capacity of 50 tons per hour consisting of:
 - (1) One (1) expander, forming soybean collets, with a maximum capacity of 50 tons per hour;
 - (2) One (1) soybean collet cooler with a maximum capacity of 50 tons per hour that controls PM emissions with one (1) cyclone (C23) that exhausts to Stack 23;
 - (3) Two (2) totally enclosed conveyors that transfer soybean fines from the hull aspirator to an enclosed expander conveyor at a maximum rate of 50 tons per hour;
 - (4) Two (2) totally enclosed expander conveyors that transfer soybean flakes and fines to the expander at a maximum rate of 50 tons per hour;
 - (5) One (1) totally enclosed conveyor that transfers soybean collets from the expander to the cooler at a maximum rate of 50 tons per hour;
 - (6) One (1) totally enclosed conveyor that transfers soybean collets from the cooler to the enclosed flake conveyor at a maximum rate of 50 tons per hour.

SECTION D.1 (cont.)

- (e) One (1) truck only soybean receiving area (P1) with a maximum throughput capacity of 600 tons per hour consisting of:
 - (1) One (1) truck only receiving pit that controls PM emissions with one (1) baghouse (C1) that exhausts to Stack 1,
 - (2) One (1) totally enclosed belt conveyor system (or equivalent) that utilizes an oil application to control PM emissions,
 - (3) One (1) aspirated soybean receiving leg that utilizes an oil application and one (1) baghouse (C1) that exhausts to Stack 1 to control PM emissions,
 - (4) One (1) drag conveyor that transfers the soybean from the receiving leg to the soybean covered belt conveyor, and
 - (5) One (1) covered belt conveyor that loads the soybean storage silos;
- (f) One (1) truck and rail soybean and hull receiving area (P2) with a maximum throughput capacity of 540 tons per hour consisting of:
 - (1) Two (2) H.B. truck and rail receiving pits that control PM emissions by restricting vehicles unloading grain at these stations to hopper-bottom rail cars and trucks with choke unloading applications,
 - (2) One (1) enclosed drag conveyor system (or equivalent) that utilizes an oil application to control PM emissions,
 - (3) Two (2) aspirated soybean and hull receiving legs that utilize an oil application and one (1) baghouse (C1) that exhausts to Stack 1 to control PM emissions,
 - (4) One (1) enclosed drag conveyor that transfers the soybean at a maximum rate of 540 tons per hour from the receiving leg to the soybean covered belt conveyor that loads the soybean silos and the hull at a maximum rate of 170 tons per hour from the receiving leg to the hull covered belt conveyor that loads the hull silos;
- (g) One (1) barge soybean receiving area (P16) with a maximum throughput capacity of 540 tons per hour consisting of:
 - (1) One (1) clamshell crane or bucket unloading to one (1) aspirated hopper unloading to one (1) enclosed belt/mass flow conveyor that controls PM emissions with one (1) baghouse (C16) that exhausts to Stack 16,
 - (2) One (1) enclosed conveyor system that utilizes an oil application to control PM emissions,
 - (3) One (1) enclosed bucket elevator, and
 - (4) One (1) enclosed belt/mass flow conveyor that discharges to the truck and rail receiving scale;

SECTION D.1 (cont.)

- (h) Twelve (12) concrete soybean silos, with a maximum storage capacity of 2,191.6 tons (73,053 bushels) each, that utilize an oil application to control PM emissions;
- (i) Four (4) concrete soybean storage silos with a maximum capacity of 19,375 bushels each, that utilize an oil application to control PM emissions;
- (j) Two (2) concrete soybean storage silos, with a maximum capacity of 18,801 bushels each, that utilize an oil application to control PM emissions;
- (k) One (1) flow coating material kaolin receiving bin that controls PM emissions with one (1) baghouse (C3) that exhausts to Stack 3;
- (l) One (1) flow coating material enclosed conveyor system that transfers kaolin to the enclosed mixing screw conveyor at a maximum rate of 0.417 tons per hour;
- (m) Three (3) totally enclosed drag conveyors (or equivalent) comprising two conveyance systems located below the storage silos that transfer the soybeans from the silos to the elevator legs at a maximum rate of 115 tons per hour per system. Only one system operates at any given time and the systems utilize an oil application to control PM emissions;
- (n) Two (2) soybean elevator legs that transfer the soybeans from the drag conveyor to the cleaner at a maximum rate of 115 tons per hour each, and utilize an oil application to control PM emissions;
- (o) One (1) totally enclosed conveyor that transfers the soybeans from the elevator legs to the magnet at a maximum rate of 115 tons per hour;
- (p) One (1) magnet, with a maximum capacity of 115 tons per hour, that utilizes both an oil application and one (1) baghouse (C4) that exhausts to Stack 4 to control PM emissions;
- (q) One (1) cleaning system with a maximum capacity of 115 tons per hour, consisting of one (1) cleaner, two (2) aspirators, two (2) hoppers, and one (1) scale, that utilize both an oil application and one (1) baghouse (C4) that exhausts to Stack 4 to control PM emissions and one (1) aspirator and one (1) breaker that utilize one (1) cyclone (C5E) that exhaust to Stack 5 to control PM;
- (r) One (1) soybean heater, with a maximum capacity of 115 tons per hour, that exhausts to Stack 21;
- (s) One (1) L-Path totally enclosed drag conveyor (or equivalent) that transfers the cleaned soybeans at a maximum rate of 115 tons per hour;
- (t) One (1) enclosed drag conveyor (or equivalent) and one (1) totally enclosed overflow recycle L-Path conveyor (or equivalent) with a totally enclosed surge hopper that transfers soybeans to the jet dryers at a maximum rate of 115 tons per hour;

SECTION D.1 (cont.)

- (u) Three (3) jet dryers, with a maximum capacity of 42 tons per hour each, that controls PM emissions with three (3) cyclones (C5A, C5B, and C5F) that exhaust to Stack 5;
- (v) Three (3) primary CCD dryers, with a combined maximum capacity of 115 tons per hour, that controls PM emissions with two (2) cyclones (C5C and C5G) that exhaust to Stack 5;
- (w) Three (3) secondary CCC coolers, with a combined maximum capacity of 115 tons per hour, that controls PM emissions with two (2) cyclones (C5D and C5H) that exhaust to Stack 5;
- (x) Six (6) cracking and dehulling rolls, with a combined maximum capacity of 115 tons per hour, that transfer the hulls through four (4) cyclones (C5C, C5D, C5G, and C5H) to an enclosed conveyor;
- (y) One (1) totally enclosed cracking and dehulling drag conveyor (or equivalent) that transfers-hulls from cyclones C5A and C5B to the hull grinding system at a maximum rate of 8.05 tons per hour;
- (z) One (1) totally enclosed cracking and dehulling drag conveyor (or equivalent) that transfers-hulls and aspirated fines from cyclones C5C, C5D, C5F, C5G, C5H, and the totally enclosed auger (or equivalent) of filter C4 to the hull screener and aspirator at a maximum rate of 8.05 tons per hour;
- (aa) One (1) hull screener and aspirator, with a maximum capacity of 8.05 tons per hour, that controls PM emissions with one (1) cyclone (C5E) that exhausts to Stack 5;
- (bb) One (1) totally enclosed drag conveyor (or equivalent) that transfers hulls from the hull screener to the hull grinders at a maximum rate of 8.05 tons per hour;
- (cc) Two (2) hull grinders, with a maximum system capacity of 8.05 tons per hour, that transfers the ground hulls to one (1) baghouse (C6) that exhausts to Stack 6;
- (dd) Hull storage bins, with a maximum capacity of 39,000 cubic feet, that controls PM emissions with one (1) baghouse (C7) that exhausts to Stack 7;
- (ee) One (1) totally enclosed drag conveyor (or equivalent) that transfers hulls to the hull hopper at a maximum rate of 15 tons per hour;
- (ff) One (1) hull hopper that feeds to the pellet mill at a maximum rate of 15 tons per hour that controls PM emissions with one (1) baghouse (C7A) that exhausts to Stack 7A;
- (gg) One (1) hull pellet mill with a maximum capacity of 15 tons per hour;
- (hh) One (1) hull pellet cooler, with a maximum capacity of 15 tons per hour, that controls PM emissions with one (1) cyclone (C8) that exhausts to Stack 8;

SECTION D.1 (cont.)

- (ii) Pellet storage bins with a maximum capacity of 70,000 cubic feet, that controls PM emissions with one (1) baghouse (C8A) that exhausts to Stack 8A, or bin vent filter systems C8B and C8C with all emissions exhausted through Stacks C8B and C8C;
- (jj) One (1) totally enclosed drag conveyor (or equivalent) and one (1) totally enclosed overflow recycle L-Path conveyor (or equivalent) with a totally enclosed surge hopper that transfers beans from cracking and dehulling to the flakers at a maximum rate of 104.9 tons per hour;
- (kk) Nine (9) flakers, with a combined maximum capacity of 104.9 tons per hour, that controls PM emissions with three (3) baghouses (C19A, C19B, and C19C) that exhaust to Stack 19;
- (ll) Two (2) totally enclosed drag conveyors (or equivalent) in series that transfer soybean flakes and collets from the flakers and the expander system to the feed screw conveyor at a maximum rate of 104.9 tons per hour;
- (mm) One (1) feed screw conveyor that transfers soybean flakes and collets to the extractor at a maximum rate of 104.9 tons per hour;
- (nn) One (1) soybean oil extractor, with a maximum capacity of 104.9 tons of soybean flakes and collets per hour and 104.9 tons of hexane per hour, that controls hexane (VOC) emissions with one (1) mineral oil absorber system (C13) that exhausts to Stack 13;
- (oo) One (1) desolventizer unit, with a maximum capacity of 86.8 tons of spent soybean flakes and collets per hour, that controls hexane emissions with one (1) mineral oil absorber system (C13) that exhausts to Stack 13;
- (pp) A set of evaporators, with a maximum capacity of 20.7 tons of soybean oil per hour, that controls hexane emissions with one (1) mineral oil absorber system (C13) that exhaust to Stack 13;
- (qq) A set of condensers and water separator to separate hexane and water, with a maximum capacity of 20.7 tons of soybean oil per hour, that controls hexane emissions with one (1) mineral oil absorber system (C13) that exhaust to Stack 13;
- (rr) One (1) totally enclosed drag conveyor (or equivalent) that transfers flakes and hexane to the desolventizer at a maximum rate of 86.8 tons per hour and 34.5 tons per hour, respectively;
- (ss) One (1) DTDC meal dryer section 1, with a maximum drying capacity of 83.4 tons of meal per hour, that controls PM emissions with one (1) cyclone (C10) that exhausts to Stack 10;
- (tt) One (1) DTDC meal dryer section 2, with a maximum drying capacity of 83.4 tons of meal per hour, that controls PM emissions with one (1) cyclone (C11) that exhausts to Stack 11;

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SECTION D.1 (cont.)

- (uu) One (1) DTDC meal cooler section, with a maximum cooling capacity of 83.4 tons of meal per hour, that transfers the meal to one (1) cyclone (C12) to Stack 12;
- (w) One (1) DTDC enclosed screw conveyor (or equivalent) that transfers meal from the DTDC meal cooler and three (3) DTDC cyclones (C10, C11, and C12) to the meal surge bin conveyor at a maximum capacity of 83.4 tons per hour;
- (ww) One (1) totally enclosed surge bin conveyor that transfers the meal to the surge bins at a maximum rate of 83.4 tons per hour;
- (xx) Two (2) meal surge bins, with a maximum storage capacity of 19,500 cubic feet, that feed to the screeners or the recycle leg that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;
- (yy) One (1) elevator leg that transfers the meal to the sizing process at a maximum rate of 83.4 tons per hour;
- (zz) Five (5) meal screeners, with a maximum capacity of 83.4 tons of meal per hour, that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;
- (aaa) One (1) meal screening hopper that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;
- (bbb) Two (2) meal grinders, with a combined maximum capacity of 83.4 tons per year, that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;
- (ccc) Two (2) meal grinding hoppers and two (2) aspirators that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;
- (ddd) One (1) totally enclosed drag conveyor (or equivalent) that transfers meal from the grinding hoppers to the meal mixing screw conveyor at a maximum rate of 83.4 tons per hour;
- (eee) One (1) enclosed meal mixing screw conveyor (or equivalent) that transfers meal to the mixed meal elevator leg at a maximum rate of 83.8 tons per hour;
- (fff) One (1) mixed meal elevator leg, with a maximum capacity of 83.8 tons per hour, that controls PM emissions with one (1) baghouse (C9) that exhausts to Stack 9;
- (ggg) One (1) totally enclosed drag conveyor (or equivalent) that transfers meal from the mixed meal elevator leg to the meal storage tanks, load out bins and bulk weigh system at a maximum rate of 83.8 tons per hour;
- (hhh) Meal storage tanks (capacity 292,000 cubic feet) and loadout bins (capacity 58,000 cubic feet), with a combined maximum storage capacity of 350,000 cubic feet, that controls PM emissions with one (1) baghouse (C20) that exhausts to Stack 20;

SECTION D.1 (cont.)

- (iii) One (1) totally enclosed drag conveyor (or equivalent) that transfers soybean meal from the meal storage tanks to the meal elevator leg at a maximum rate of 300 tons per hour;
- (jjj) One (1) meal elevator leg that operates at a maximum capacity of 300 tons per hour and controls PM emissions with one (1) baghouse (C20) that exhausts to Stack 20;
- (kkk) One (1) truck loadout scalper with a totally enclosed ball breaker that operates at a maximum capacity of 383.3 tons per hour;
- (lll) Two (2) totally enclosed drag conveyors (or equivalent) that transfer meal from the meal loadout bins to the truck at a maximum rate of 383.3 tons per hour each;
- (mmm) One (1) truck loadout chute that operates at a maximum capacity of 383.3 tons per hour and controls PM emissions with one (1) baghouse (C14) that exhausts to Stack 14;
- (nnn) One (1) rail and barge loadout scalper with a totally enclosed ball breaker that operates at a maximum capacity of 383.3 tons per hour;
- (ooo) One (1) rail and barge bulk weigh system consisting of one (1) upper garner, one (1) weigh hopper, and one (1) lower surge that operates at a maximum capacity of 383.3 tons per hour;
- (ppp) One (1) totally enclosed drag conveyor (or equivalent) that transfers meal from the lower surge to rail or barge loadout at a maximum rate of 383.3 tons per hour, with particulate emissions controlled by baghouses C21A, C21B, and C21C, and emissions exhausted through Stacks C21A, C21B, and C21C;
- (qqq) Two (2) rail loadout systems that operates at a maximum total capacity of 383.3 tons per hour, based on only one system operating at a time, and control PM emissions with one (1) baghouse (C15) that exhausts to Stack 15;
- (rrr) One (1) enclosed conveyor that transfers soybean meal from the lower surge to the barge loadout system at a maximum rate of 383.3 tons;
- (sss) One (1) barge loadout system that operates at a maximum capacity of 383.3 tons per hour and controls PM emissions with one (1) baghouse (C15) that exhausts to Stack 15;
- (ttt) Three (3) 33.7 million (MM)Btu per hour natural gas fired boilers that exhaust to Stacks 17, 18, and 18A;
- (uuu) Two (2) fixed roof hexane storage tanks with a maximum storage capacity of 14,000 gallons each;
- (vvv) One (1) fixed roof hexane work tank with a maximum storage capacity of 8,000 gallons;

SECTION D.1 (cont.)

(www) Four (4) fixed roof soybean oil storage tanks with a maximum storage capacity of 932 cubic meters each;

(xxx) Three (3) fixed roof soybean oil storage day tanks with a maximum storage capacity of 114 cubic meters each; and

(yyy) One (1) fixed roof dust suppression soybean/mineral oil storage tank with a maximum storage capacity of 1,000 gallons.

(zzz) Two (2) soybean storage piles, each with a maximum annual throughput of 0.75 million bushels per year.

(aaaa) One (1) new silo, with a maximum capacity of 525,000 bushels, and a maximum handling rate of 157,500 tons per year, using oil application to control PM emissions. The new silo will not increase the overall throughput of the soybeans at the plant, but will allow the source to separate genetically altered crops from non-genetically altered ones.

(bbbb) One (1) new enclosed belt conveyor to load the new silo.

(cccc) One (1) new enclosed drag conveyor to loadout the new silo.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions).

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the affected facilities described in this section except when otherwise specified in 40 CFR Part 60, Subpart DD.

D.1.2 New Source Performance Standards(NSPS) Grain Elevators [326 IAC 12] [40 CFR Subpart DD 60.302(b)]

Pursuant to 40 CFR Subpart DD 60.302(b), process emission gases discharged into the atmosphere from the:

- (a) north truck only receiving pit; north house bin loading area elevator and conveyors; north storage/loadout area conveyors;
- (b) receiving area P1 truck only receiving pit, belt conveyor system, aspirated receiving leg, drag conveyor and covered belt conveyor;
- (c) receiving area P2 hopper bottom truck and rail receiving pits, drag conveyors and aspirated receiving legs;

- (d) barge receiving area clamshell crane or bucket unloading, aspirated hopper, belt/mass flow conveyors, conveyor system and bucket elevators;

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- (e) drag conveyors comprising two conveyance systems between the storage silos and elevator legs; elevator legs; conveyor between the elevator legs and magnet;
- (f) cleaning system cleaner, aspirators, hoppers, and scale; and
- (g) L-Path drag conveyor; drag conveyor to the jet dryers;
- (h) one (1) new enclosed belt conveyor to load the new silo.
- (i) one (1) new enclosed drag conveyor to loadout the new silo.

shall not exceed particulate matter (PM) concentrations of 0.01 gr/dscf. Process emission gases from these facilities shall not exhibit greater than 0 percent opacity.

D.1.3 New Source Performance Standards(NSPS) Grain Elevators [326 IAC 12] [40 CFR Subpart DD 60.302(c)]

- (a) Pursuant to 40 CFR Subpart DD 60.302(c)(1), fugitive emissions from the truck unloading area P1, hopper bottom truck and rail car unloading area P2, north truck unloading area, and two (2) 0.75 million bushels per year soybean storage piles shall not exhibit greater than 5 % opacity.
- (b) Pursuant to 40 CFR Subpart DD 60.302(c)(2), fugitive emissions from the grain handling operations shall not exhibit greater than 0 % opacity 40 CFR Subpart DD 60.302(c).
- (c) Pursuant to 40 CFR Subpart DD 60.302(c)(4), the barge unloading operation shall operate as follows:
 - (1) The unloading leg shall be enclosed from the top (including the receiving hopper) to the center line of the bottom pulley and ventilation to a control device shall be maintained on both sides of the leg and the grain receiving hopper.
 - (2) The total rate of air ventilated shall be at least 32.1 actual cubic meters per cubic meter of grain handling capacity.

D.1.4 PSD Minor Limit [326 IAC 2-2] [40 CFR 52.21]

The throughput of processed soybeans to the soybean processing facilities shall not exceed 940,240 tons per twelve (12) consecutive month period. This limit is required such that the PTE PM and VOC is less than 250 tons per year. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 not applicable.

D.1.5 Particulate Matter (PM) [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3-2, the PM from the:

Truck Receiving and Conveyors (P1), Rail/Hopper Bed Truck Receiving (P2), North Truck Receiving and Conveyors, Barge Grain Receiving (P16), Annex Silo Loading (P2A), Merchandising Silo Loading

(P26), North House Bin Loading, North House Storage Loadout, Soybean Cleaning (P4), Soybean Heater (P21), Soybean Cracking/Dehulling (P5), Soybean Expander (P23), Soybean Flaking (P19), DTDC Meal Drying (P10 & P11), DTDC Meal Cooling (P12), Meal Sizing (P9), Kaolin Handling (P3), Hull Grinding (P6), Hull Storage Loading (P7), Hull Storage Unloading (P7), Hull Pellet Cooling (P8), Hull Pellet Storage (P8), Meal Storage & Loadout Bins (P20), Truck Meal Loadout (P14), Barge/Rail Meal Loadout (P15), Two (2) 0.75 million bushels per year soybean storage piles, one (1) new enclosed belt conveyor to load the new silo, and one (1) new enclosed drag conveyor to loadout the new silo,

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shall not exceed the pound per hour emission rate established as E in one of the following applicable formulas:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

or

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.1.6 Particulate Matter Emission Rate Limitations

Pursuant to Consolidated Grain and Barge Company's request, the particulate matter (PM) emission rates shall be limited to the potential controlled emissions as reported below:

Process	PM Emission Rate
Truck Receiving and Conveyors (P1)	0.56 lb/hr
Rail/Hopper Bed Truck Receiving (P2)	0.014 lb/ton bean unloaded
North Truck Receiving and Conveyors (P24)	0.43 lb/hr
Barge Grain Receiving (P16)	0.69 lb/hr
Annex Silo Loading (P2A)	0.003 lb/ton bean handled
Merchandizing Silo Loading (P26)	0.009 lb/ton bean handled
North House Bin Loading	0.009 lb/ton bean handled
North House Storage Loadout	0.009 lb/ton bean handled
Soybean Cleaning (P4)	0.82 lb/hr
Soybean Heater (P21) and Soybean Cracking/Dehulling (P5)	12.40 lbs/hr
Soybean Expander (P23)	2.50 lb/hr

Process	PM Emission Rate
Soybean Flaking (P19)	0.39 lb/hr
DTDC Meal Drying Section 1 (P10)	10.00 lb/hr
DTDC Meal Drying Section 2 (P11)	1.80 lb/hr
DTDC Meal Cooling (P12)	1.00 lb/hr
Meal Sizing (P9)	0.26 lb/hr
Kaolin Handling (P3)	0.10 lb/hr

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Hull Grinding (P6)	0.03 lb/hr
Hull Storage and Handling (P7)	0.34 lb/hr
Hull Pellet Cooling (P8)	5.14 lb/hr
Hull Pellet Storage (P8)	0.17 lb/hr
Meal Storage & Loadout Bins (P20)	0.26 lb/hr
Truck Meal Loadout (P14)	0.69 lb/hr
Barge/Rail Meal Loadout (P15)	0.69 lb/hr

Compliance with these voluntary limits satisfies the requirements of 326 IAC 6-3-2 in Condition D.1.5 for these facilities.

D.1.7 Best Available Control Technology (BACT) [326 IAC 8-1-6]

Pursuant to CP-129-7488-00035 (issued on July 17, 1995), as revised by source modification (129-12235-00035), the VOC (hexane) emissions from the soybean oil extractor plant shall comply with the Best Available Control Technology (BACT) for the oil extractor, meal dryers, and meal cooler. The company shall assure compliance with BACT by performing monitoring and recordkeeping such that the following limits are not exceeded:

- (a) the hexane usage shall be limited to 0.225 gallons per ton of soybean crushed, and
- (b) the total amount of soybeans processed at the plant shall meet the limit established in Condition D.1.4.

The limits established correspond to the following BACT determinations:

Facility	BACT	VOC (Hexane) Emission Limit including upset conditions
The extraction and distillation process including the oil extractor, desolventizer, evaporators, solvent separator and vent system	Mineral Oil Absorber System	0.084 lb/ton soybean processed

Meal dryers	None	0.30 lb/ton soybean processed
Meal cooler	None	0.051 lb/ton soybean processed

The company will minimize the hexane emissions by training the operators and supervisors. At the end of each calendar year, the company shall submit to the IDEM a progress report of efforts taken to reduce hexane emissions from the plant;

and

- (a) Leg, Truck Loadout, Rail Loadout, and Barge Loadout shall be in operation at all times those facilities are in operation.

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- (b) The cyclones for the Cleaning System, Jet Dryers, CCD Dryers, CCC Coolers, Cracking and Dehulling, Hull Screening/Aspiration, Hull Pellet Cooler, DTDC Dryers, DTDC Cooler shall operate at all times when those facilities are in operation.
- (c) Dust control oil shall be applied at all times that the new Belt Conveyor and new Drag Conveyor for the new Silo, Conveyors/Legs, Storage Silos, Magnet, Cleaning system and loading/unloading operations listed as utilizing said control are in operation. Oil application shall be at a rate determined appropriate based on PM compliance tests.
- (d) The H.B. Truck and Rail receiving pits shall be limited to hopper bottom rail cars and trucks with choke unloading. Unloading at these receiving pits shall be conducted inside a two-sided and roofed enclosure to minimize fugitive emissions. Guidelines shall be posted in this area which address these operational limitations.
- (e) Emissions shall be minimized in all receiving, handling, and shipping operations by appropriate methods. These may include, but may not be limited to: dust collection systems, windscreens, baffles, restricted hopper openings, enclosed transfer points, and flexible drop spouts and/or sleeves.
- (f) Good housekeeping and equipment maintenance procedures shall be implemented.

D.1.8 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any control devices.

Compliance Determination Requirements

D.1.9 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

Within sixty (60) days of reaching maximum capacity but no later than 180 days after initial startup, the Permittee shall perform particulate matter (PM) and volatile organic compound (VOC) testing utilizing Method 5 for PM and Method 25 for VOC (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C- Performance Testing.

Consolidated Grain and Barge Company shall submit a stack testing plan to the IDEM within 30 days after initial start-up. This plan shall outline the measures to be taken to demonstrate

compliance with permitted emission rates and must be approved by IDEM. The plan shall identify the facilities and the methods in which emissions from the representative facilities of the following facilities list shall be evaluated to determine initial compliance at the increased plant capacity:

Facility	Pollutant
P1 - Truck Receiving and Conveyors Baghouse (C1)	PM
North Truck Only Receiving Baghouse (C24)	PM
Barge Receiving Baghouse (C16)	PM
Oil application dust control on P1 Truck Receiving or H.B. Truck and Rail Receiving conveyors	PM
Oil application dust control on Annex Silo Loading, Merchandizing Silo Loading or North House Storage/Loadout	PM

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Soybean Cleaning System Baghouse (C4) and Aspirator/Breaker Cyclone (C5E)	PM
Soybean Heater	PM
Jet Dryers Cyclones (C5A, C5B and C5F)	PM
Primary CCD Dryers Cyclones (C5C and C5G)	PM
Secondary CCC Coolers Cyclones (C5D and C5H)	PM
Soybean Expander Cyclone (C23)	PM
Soybean Flaking Baghouses (C19A, C19B and C19C)	PM
DTDC Meal Drying Section 1 Cyclone (C10)	PM, VOC
DTDC Meal Drying Section 2 Cyclone (C11)	PM, VOC
DTDC Meal Cooling Cyclone (C12)	PM, VOC
Oil Extractor, Evaporator and Condenser Mineral Oil Absorber System (C13)	VOC
Meal Sizing Baghouse (C9)	PM
Kaolin Bin Vent Baghouse (C3)	PM
Hull Grinding Baghouse (C6)	PM
Hull Storage Bin Baghouse (C7) and Hopper Baghouse (C7A)	PM
Hull Pellet Cooling Cyclone (C8)	PM
Hull Pellet Storage Baghouse (C8A)	PM
Hull Pellet Storage Bin Vents (C8B and C8C)	PM

Meal Storage & Loadout Bins Baghouse (C20)	PM
Truck Meal Loadout Baghouse (C14)	PM
Barge/Rail Meal Loadout Baghouse (C15)	PM

D.1.10 Volatile Organic Compounds (VOC)

Pursuant to CP129-7488-00035, the procedures to demonstrate compliance with the VOC emissions from the mineral oil absorber vent, meal dryers, meal cooler and total hexane usage shall be as follows:

- (a) The mineral oil absorption vent VOC (hexane) emission rate shall be determined daily by measuring the airflow rate and the concentration of the hexane in the air stream. This concentration shall be determined by measuring the percent LEL. If the air flow meter proves unreliable, airflow can be determined by calculations.

- (b) The hexane emission rate from the DTDC dryer cyclones and DTDC cooler cyclone shall be determined daily by laboratory test if the lower meal temperature of the desolventizer is below 215 degrees F. If the meal temperature of the desolventizer is above 215 degrees F, then the hexane emission rate will be based upon the compliance test results.

D.1.11 Particulate Matter (PM)

Compliance with PM emission limitations contained in Conditions D.1.2, D.1.5 and D.1.6 shall be demonstrated by the following conditions:

- (a) The baghouses for the North Truck Receiving, P1 Truck Receiving/Receiving Leg, Barge Receiving/Conveyors, Kaolin Receiving Bins, Magnet, Cleaning System, Hull Grinders, Hull Storage Bins, Pellet Mill Hull Feed Hopper, Pellet Storage Bins, Meal Flakers, Meal Screeners, Meal Screening Hopper, Meal Grinders, Mixed Meal Elevator Leg, Truck Loadout, Rail Loadout, and Barge Loadout shall be in operation at all times those facilities are in operation.
- (b) The cyclones for the Cleaning System, Jet Dryers, CCD Dryers, CCC Coolers, Cracking and Dehulling, Hull Screening/Aspiration, Hull Pellet Cooler, DTDC Dryers, DTDC Cooler shall operate at all times when those facilities are in operation.
- (c) Dust control oil shall be applied at all times that the Conveyors/Legs, Storage Silos, Magnet, Cleaning system and loading/unloading operations listed as utilizing said control are in operation. Oil application shall be at a rate determined appropriate based on PM compliance tests.
- (d) The H.B. Truck and Rail receiving pits shall be limited to hopper bottom rail cars and trucks with choke unloading. Unloading at these receiving pits shall be conducted inside a two-sided and roofed enclosure to minimize fugitive emissions. Guidelines shall be posted in this area which address these operational limitations.

- (e) Emissions shall be minimized in all receiving, handling, and shipping operations by appropriate methods. These may include, but may not be limited to: dust collection systems, windscreens, baffles, restricted hopper openings, enclosed transfer points, and flexible drop spouts and/or sleeves.
- (f) Good housekeeping and equipment maintenance procedures shall be implemented.

D.1.12 Volatile Organic Compounds (VOC)

The mineral oil absorber shall operate at all times the soybean oil extractor, desolventizer, evaporators or condensers are in operation.

D.1.13 VOC and PM Emissions

Compliance with Condition D.1.4 shall be demonstrated within 30 days of the end of month based on the total processed grain throughput for that month and the previous eleven (11) months.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.14 Visible Emissions Notations

- (a) Daily visible emission notations of the baghouse, cyclone, and absorber stack exhausts shall be performed once per working shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

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- (b) Daily visible emission notations of the H.B. Truck and Rail receiving pits shall be performed once per working shift during daylight hours from outside the receiving area enclosure during normal daylight operations when rail car or truck unloading is occurring. A trained employee shall record whether emissions are normal or abnormal. These notations should be taken from a position approximately perpendicular to the prevailing wind direction which allows the trained employee to see the leeward side of the structure.
- (c) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (d) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (e) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (f) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.1.15 Parametric Monitoring

The Permittee shall record the total static pressure drops across the baghouses used in conjunction with the North Truck Receiving, P1 Truck Receiving/Receiving Leg, Barge Receiving/Conveyors, Kaolin Receiving Bin, Magnet, Cleaning System, Hull Grinders, Hull Storage Bins, Pellet Mill Hull Feed Hopper, Pellet Storage Bins, Meal Flakers, Meal Screeners, Meal Screening Hopper, Meal Grinders, Mixed Meal Elevator Leg, Truck Loadout, Rail Loadout, and Barge Loadout at least once daily when the associated emission unit is in operation and

venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 3.0 and 9.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.16 Baghouse Inspections

- (a) An inspection shall be performed each calendar quarter of all bags controlling the North Truck Receiving, P1 Truck Receiving/Receiving Leg, Barge Receiving/Conveyors, Kaolin Receiving Bins, Truck Loadout, Rail Loadout, and Barge Loadout operations when venting to the atmosphere. All defective bags shall be replaced.
- (b) An inspection shall be performed at least annually of all bags controlling the Magnet, Cleaning System, Hull Grinders, Hull Storage Bins, Pellet Mill Hull Feed Hopper, Pellet Storage Bins, Meal Flakers, Meal Screeners, Meal Screening Hopper, Meal Grinders, Mixed Meal Elevator Leg, when venting to the atmosphere. All defective bags shall be replaced.

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D.1.17 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.1.18 Cyclone Inspections

An inspection shall be performed at least annually of all cyclones controlling the Cleaning System, Jet Dryers, CCD Dryers, CCC Coolers, Cracking and Dehulling, Hull Screening/Aspiration, Hull Pellet Cooler, DTDC Dryers, DTDC Cooler operations when venting to the atmosphere.

D.1.19 Cyclone Failure Detection

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.1.20 VOC Monitoring

The following parameters shall be monitored for the extraction process:

- (a) The inlet vacuum pressure of the vapor stream to the absorber shall not exceed 10 inches of water and the flow rate of the mineral oil through the absorber shall not be less than 15 gallons per minute. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous inlet vacuum pressure and flow rate on a frequency of not less than every 15 minutes.
- (b) The temperature of the mineral oil entering the absorber shall be kept in a range of 70 to 105 degrees Fahrenheit (°F). When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than every 15 minutes.
- (c) The temperature of the soybean oil entering the mineral-oil-stripping column shall not be less than 200 degrees Fahrenheit (°F) for adequate stripping of the absorbed hexane from the oil. When the process is in operation, an EDMS shall record the instantaneous temperature on a frequency of not less than every 15 minutes.

The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when the parameter readings are outside of the above mentioned ranges. In the event that a breakdown of the EDMS occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameters should be implemented at intervals no less frequent than every 2 hours.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.21 Record Keeping Requirements

- (a) To document compliance with D.1.4, the Permittee shall maintain monthly records of the throughput of processed soybeans to the soybean processing facility.
- (b) To document compliance with D.1.7, the Permittee shall maintain monthly records of the total volume of hexane usage per ton of soybean crushed at the source.
- (c) To document compliance with Condition D.1.14, the Permittee shall maintain daily work shift records of visible emission notations of all baghouse and cyclone stack exhausts.
- (d) To document compliance with Conditions D.1.15 the Permittee shall maintain the following:
 - (1) Daily work shift records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Baghouse total static pressure drop across the tubesheet;

- (B) Cleaning cycle: frequency and differential pressure. For baghouses that have cleaning cycles or differential pressure preset by the manufacturer, the Permittee can document the preset cycle or differential pressure once, versus re-documenting the preset every day, provided the preset cycle or differential pressure does not change.
- (2) Documentation of all response steps implemented, per event .
- (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
- (4) Quality Assurance/Quality Control (QA/QC) procedures.
- (5) Operator standard operating procedures (SOP).
- (6) Manufacturer's specifications or its equivalent.
- (7) Equipment "troubleshooting" contingency plan.
- (e) To document compliance with Conditions D.1.16 and D.1.18, the Permittee shall maintain records of the results of the inspections required.
- (f) To document compliance with Conditions D.1.10 and D.1.20, the Permittee shall maintain the following:

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- (1) Records of the daily airflow and VOC (hexane) concentration measured at the vent for the mineral oil absorber.
- (2) Records of the days the lower meal temperature of the desolventizer is below 215 degrees F and meal laboratory VOC test results for those days.
- (3) Electronic data management system (EDMS) records for the inlet vacuum pressure of the vapor stream to the absorber, flow rate of the mineral oil through the absorber, the mineral oil temperature entering the absorber and soybean oil temperature entering the stripping column. Records of the times and reasons of the breakdown of the EDMS and efforts made to correct the problem should accompany any supplemental or intermittent monitoring records occurring as a result of EDMS failure.
- (g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.22 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.4 and D.1.7(b) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported.